"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, Abram Yakovlevich; LOSHAK, B.O., red.; LARIONOV, G.Ye., tekhn. red.

[Problems in the production costs of electric and thermal energy] Problemy sebestoimosti elektricheskoi i teplovoi energii. Moskva, Gosenergoizdat, 1963. 303 p.
(MIRA 16:8)

(Electric power production--Costs)
(Electric utilities--Rates)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, A.Ya., kand.ekonomicheskikh nauk

New norms on the amortization of the basic assets of power engineering enterprises. Elek. sta. 34 no.3:33-39 Mr '63. (MIRA 16:3)

(Electric power plants)
(Depreciation)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

KOSTENKO, M.P.; MELENT'YEV, L.A.; KAMENSKIY, M.D.; ZALESSKIY, A.M.; BRIL', R.Ya.; GORSHKOV, A.S.; SAVASHINSKAYA, V.I.; DOVGAL', S.A.; KOVALEV, N.N.; BOLOTOV, V.V.; USOV, S.V.; GERASIMOV, V.N.; SIVAKOV, Ye.R.; AVRUKH, A.Ya.; STARIKOV, V.G.; MIKHAILEVICH, A.I.

I.V. Gofman; obituary. Elek. sta. 34 no.6:95 Je '63. (MIRA 16:9)
(Gofman, Igor' Valentinovich, 1903-1963)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

USSR/Engineering - Welding, Autogenous Sep 49
Flux

"Experience of Automatic Welding Under Flux in Chemical Machine Building," L. G. Avrukh, Engr, 1½ pp

"Avtogen Delo" No 9

During 1948 - 1949 factory manual welding was replaced by automatic welding for following parts: refrigerator compressor frames, vacuum filter bottoms, tanks, ammonia condensers, vacuum driers, etc. Lists results obtained with various flux mixtures. Mentions types of machines used. Includes two tables.

1/50T32

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.

Passenger motorship made of plastics. Rech. transp. 22 no.11: 30-31 N '63. (MIRA 16:12)

1. Glavnyy konstruktor TSentral'nogo tekhniko-konstruktorskogo byuro Ministerstva rechnogo flota.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M., inzhener.

Diesel-powered freighter for transporting consumers' goods. Mor.i tech. flot 14 no.3:18-22 Mr '54. (MLRA 7:5)

(Ships--Cargo)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, Meyer Girshevich; GOLOVANOV, N.V., redaktor; VOLCHOK, K.M., tekhnicheskiy redaktor.

[Low-tonnage cargo motorships] Malotonnazhnye gruzovye teplokhody. Leningrad, Izd-vo "Rechnoi transport", Leningradskoe otd-nie, 1956. 77 p. (MLRA 9:6)
(Motorships)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.O.

Plastics used in shipbuilding for inland water transportation.
Rech. transp. 17 no. 7:24-28 Jl '58. (MIRA 11:8)

1. Glavnyy konstruktor TSentral'nogo tekhniko-konstruktorskogo byuro Ministerstva rechnogo flota.
(Shipbuilding)
(Plastics)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.G., inzh.

Ships made of plastic. Sudostroenie 25 no.1:37-42 Ja '59.
(MIRA 12:3)

(Ships) (Plastics)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

PHASE I BOOK EXPLOITATION SOV/4945

Avrukh, Meyer Girshevich

Proyektirovaniye sudov iz plastmassy (Designing Ships of Plastic Materials) Leningrad, Sudpromgiz, 1960. 339 p. 4,800 copies printed.

Scientific Eds.: P. Z. Li and A. A. Mndoyan; Ed.: A. I. Kuskova; Tech. Ed.: N. V. Erastova.

PURPOSE: This book is intended for workers of design and construction organizations and for the operational and engineering personnel of the shipbuilding industry. It may also be used by students at shipbuilding institutes and tekhnikums.

COVERAGE: The author discusses the design, construction and engineering problems peculiar to the building of plastic ships. For purposes of comparison he also describes certain aspects of the design and construction of steel and light-alloy ships and analyzes the respective weights and operational characteristics of ships made of these materials and of plastics. Various types of small-tonnage craft for inland waterways are considered; their hulls, power plants, cargo-handling

Card 1/7

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

KATK ', Pavel Pavlovich; KOSTROV, Aleksey Ivanovich; FAYNBERG, Yefim Davidovich [deceased]; AVRUKH, K.G., inzh. retsenzent; IVOCHKIN, V.F., inzh., retsenzent; GLINOV, V.I., nauchn. red.; SHAKHNOVA, V.M., red.

[Motorboats and launches made of plastics] Shliupki i katera iz plastmass. Leningrad, Izd-vo "Sudostroenie," 1964. 263 p. (MIRA 17:6)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.G., inzh.

Principal trends in the development of the construction of rivercraft from plastics. Sudostroenie 30 no.8:12-18 Ag '64. (MIRA 18:7)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

ACC NR: AR6032262 (N) SOURCE CODE: UR/0398/66/000/006/V011/V011

AUTHOR: Avrukh, M. G.

TITLE: Plastic heat-insulating cover for holds of petroleum tankers

SOURCE: Ref. zh. Vodnyy transport, Abs. 6V63

REF SOURCE: Proizv.-tekhn. sb. Tekhn. upr. M-va rechn. flota RSFSR, no. 5(49), 1965, 18-24

TOPIC TAGS: heat insulation, petroleum product, petroleum industry equipment, petroleum fuel, petroleum transportation

ABSTRACT: The Ministry of the RSFSR River Fleet and other organizations are engaged in the development of plastic insulation covers for the holds of petroleum tankers. These covers reduce evaporation losses and losses occurring during transport of heated viscous fuel oil and anticorrosion agents. A project design of a tanker with freight-carrying capacity of 150 tons, equipped with heat insulating covers for hauling all types of petroleum products, has been made. Its heat-insulating layer consists of epoxy tar, foam plastic blocks, and fiberglass. The tanker in project is being compared with a tanker with removable cisterns and similar

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

ACC NR: AR6032262

dimensions. As a whole the tanker equipped with a heat-insulation device is 12 tons lighter, its haulage cost is 12% lower, and its labor productivity is 7% higher. Scale models of the heat insulation covers were made and tested for effectiveness, strength, and resistance to various petroleum products and cleaning products. They were satisfactory up to a temperature of 100C, and resisted light and dark petroleum products at temperatures ranging from 0 to 95C. The use of heat-insulating covers on petroleum tankers makes it possible to forego heating, double hulls, and bottoms, to reduce evaporation losses, and to mechanize the cleaning of the holds. Orig. art. has: 2 figures and 1 table. Abstracter: Ye. Chestnov. [Translation of abstract]

SUB CODE: 05, 11, 13/ SUBM DATE: none/

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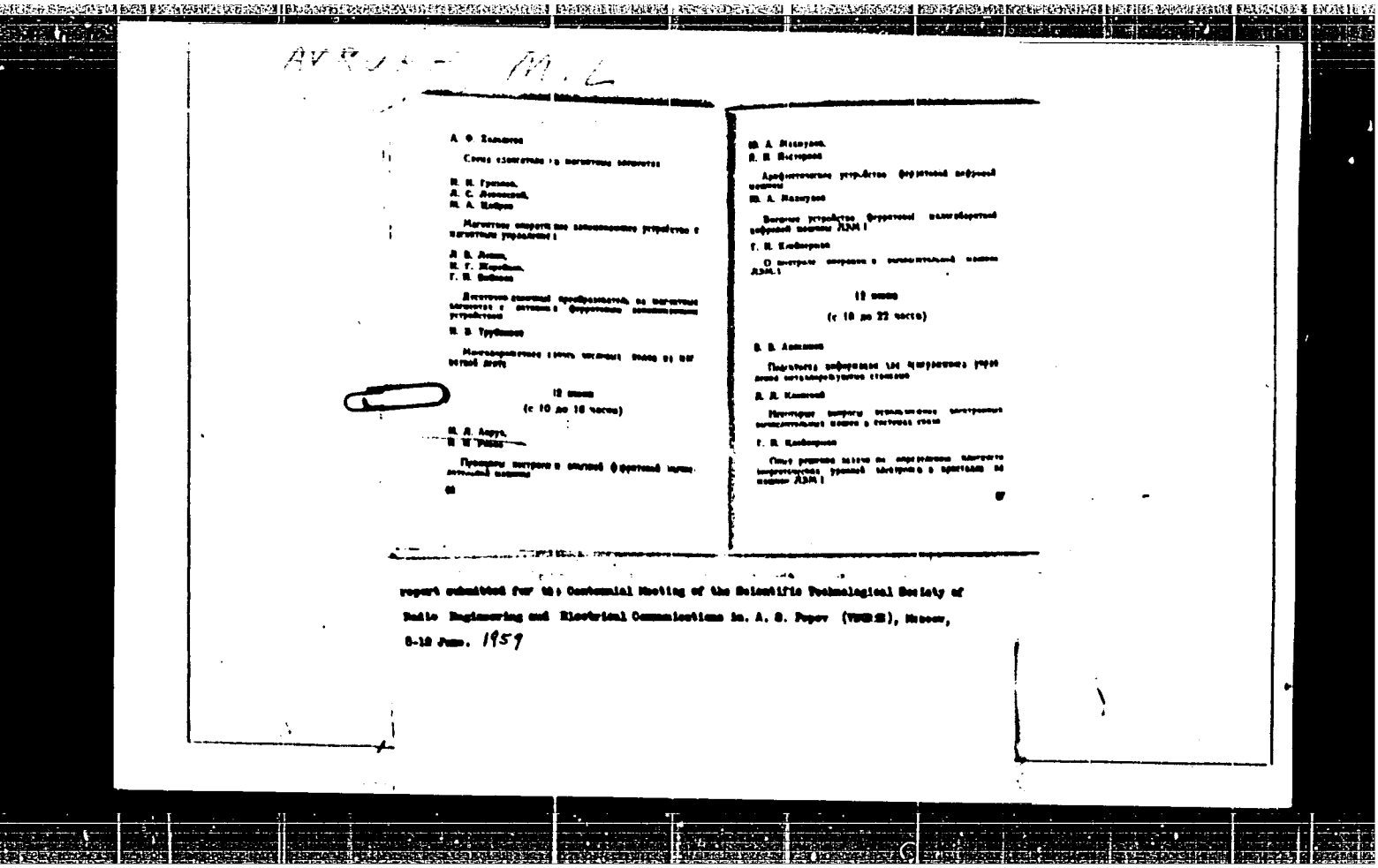
Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8



report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNIIRE), Moscow, 8-12 June. 1959

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.L.; MAGIDSON, L.M.; DMITRIYEV, V.G.

Principles of designing a small contactless automatic telephone exchange using magnetic elements. Probl.pered.inform. no.9:150-159 '61. (MIRA 14:7)

(Telephone, Automatic)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, M.L., red.; VASIL'YEV, A.N., red.; SAYENKO, G.I., red.; SINDILEVICH, L.M., red.

[Reading machines; papers presented at the conference on the processing of information, machine translation, and automatic reading] Chitaiushchie ustroistva; sbornik dokladov na Konferentsii po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniiu teksta. Moskva, 1962. 186 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.
(Reading machines)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, V.S., inzh.; MITROFANOV, N.N.

Use of aluminum bus conductors in short networks of ore smelting furnaces. Prom. energ. 20 no.1:29-33 Ja '65.

(MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

MIRENBURG, L.A., inzh.; AVRUKH, V.Yu., inzh.

Converting turbogenerators to higher hydrogen pressure.
Energetika 8 no.3:30-34 Mr '60. (MIRA 13:6)
(Turbogenerators—Cooling)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, V.Yu., inzh.

Some reasons for increased vibration in synchronous multipolar machines. Elek.sta. 31 no.1:38-41 Ja '60.
(MIRA 13:5)
(Electric motors, Synchronous--Vibration)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, V.Yu., inzh.; SAFEL'NIKOV, K.N., inzh.

Experience in redesigning the hydrogen cooling system of TV-50-2 and TV2-100-2 generators. Energetik 9 no.1:4-7 Ja '61. (MIRA 16:7)

(Electric generators)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.; TUROS, A.E., inzh.; SAPEL'NIKOV, K.N., inzh.; AVRUKH, V.Yu., inzh.; VOINOV, A.G., inzh.

Seals of water-cooled turbogenerators. Elek. sta. 34 no.5:72-79 My '63. (MIRA 16:7)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo basseyna (for Degil', Panchenko, Turos). 2. Uralenergo (for Sapel'nikov).

(Turbogenerators)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUKH, V.Yu., inzh.; DUGIN, A.I., inzh.

Power load limits of Russian turbogenerators with hydrogen surface cooling. Elek. sta. 35 no.9:56-59 S '64.

(MIRA 18:1)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

Name: AVRUKH, E. L.

An article on cold-cathode type radio tubes, describing two types of photo multiplier tubes: The difference is reflected in the methods of accelerating primary electrons: (1) a multi-dynode (multi-stage) electron multiplier, and (2) electrons receive energy in the form of alternating voltage with matched frequency.

REF: R. F. #12, pg 48, col 2, 1937

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

Ye. L.

AVRUKH, YE. L.

USSR/Engineering - Chrome plating

Card 1/1 : Pub. 12 - 8/11

Authors : Zinovich, N. S., and Avrukh, E. L.

Title : Thermodiffusion chrome-plating of precision parts for a fuel manifold

Periodical : Avt. trakt. prom. 5, 25-27, May 1954

Abstract : Thermodiffusion chrome-plating of precision parts for a fuel manifold is described. The chrome plating was conducted on components made of KhVG, ShKh15, and U8 steels in the temperature range of 900 to 1150°C. Tables; illustrations; graph.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

BABANSKIY, Yu.K.; BALABEKYAN, O.I. (Orenburg); PENNER, D.I.; AVRUKINA, T.E. (Leningrad); SVITKOV, L. (Moskva)

Discussion of the draft program of physics for the eight-year school and the secondary school of general education with industrial training. Fiz.v shkole 20 no.1:62-65 Ja-F '60. (MIRA 14:10)

1. Gosudarstvennyy pedagogicheskiy institut, Rostov-na-Donu (for Babanskiy). 2. Pedagogicheskiy institut, Sverdlovsk (for Penner).

(Physics—Study and teaching)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, A.G.; ARINKIN, V.V.; ANDREYEV, N.N; STRUNGE, B.N.; SHMIDT, M.M.; SEDOV, V.M., inzhener, retsenzent; MOROULIS, Yu.B., kandidat tekhnicheskikh nauk redaktor; PETROV, G.I., inzhener, zaveduyushchiy redaktsiyey; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[The D50 series locomotive and marine engines] Teplovoznye i sudovye dvigateli D50; konstruktsiia, ekspluatatsiia, razborka, sborka i regulirovka. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 269 p. [Microfilm] (MLRA 7:10)
(Diesel engines)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUMIN, Abram Grigor'yevich; ARINKIN, Viktor Vasil'yevich; MUL'MAN, Boris Yefimovich; STRUNGE, Boris Nikolayevich; MORGULIS, Yu.B., kand. tekhn.nauk, retsenzent; MELEYEV, A.S., inzh., red.; GERASIMOVA, Ye.S., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

[D 100 diesel engine] Dizel' D100. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 325 p. (MIRA 11:7)
(Diesel engines)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, Abram Grigor'yevich, inzh.; RAKHMATULIN, M.D., inzh, red.; BOBROVA, Ye.N., tekhn.red.

[2D100 diesel for diesel-electric locomotives; maintenance] Teplovoznyi dizel' 2D100; tekhnicheskoe obsluzhivanie. Moskva, Gos.transp.zhel-dor.izd-vo, 1958. 334 p. (MIRA 11:12)
(Diesel engines) (Diesel locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, A.G., inzh.; RAKHMATULIN, M.D., kand. tekhn. nauk, retsenzent; KISELEVA, N.P., inzh., red.; MAKUNI, Ye.V., tekhn. red.

[Diesel engine 2D100 for diesel locomotives; its maintenance and repair] Teplovoznyi dizel' 2D100; tekhnicheskoe obsluzhivanie. Izd.2. ispr. i dop. Moskva, Transzheldorizdat, 1963. 313 p. (MIRA 16:4)
(Diesel engines--Maintenance and repair)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, A.L.

Utilization of reclaimed wool in the manufacture of blankets and felt. Leh. prom. no.4:17-19 O-D '64 (MIRA 18:1)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

ACC NR: AT6029624 SOURCE CODE: UR/0000/66/000/000/0053/0062

AUTHOR: Avrunina, G. A.

ORG: none

TITLE: Experimental evaluation of the significance of the dose rate for biological effectiveness of incorporated radioactive isotopes: method of "simulating" internal irradiation with external irradiation according to time distribution

SOURCE: Voprosy obshchoy radiobiologii (Problems of general radiobiology). Moscow, Atomizdat, 1966, 53-62

TOPIC TAGS: radiation simulation, radiobiology, radioisotope, relative biologic efficiency, radiology, irradiation dosimetry

ABSTRACT: The author points out the difficulties of determining the RBE of an internal irradiation dose and proposes a method to simplify the problem. The method is based on the use of external irradiation as a model to simulate internal irradiation in comparing RBE. The spatial distribution of an internal irradiation dose is practically impossible to reproduce in a model, but time distribution can be simulated by determining the time distribution of an internal emitter dose. The selection of a time interval (hourly, daily, weekly or other) for averaging the dose rate of an internal emitter depends on the half life period of the isotope and its

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ACC NR: AT6029624

excretion rate from the body. With dosimetry of internal irradiation based primarily on measurement of absolute activity, the problem is reduced to studying the dynamics of the activity level in experimental animals and computing the dose rate according to formula. A given internal irradiation effect can be simulated with external irradiation by using one or a combination of the averaged dose rates. As long as the simulated irradiation must be constant, X-irradiation cannot be used; however, gamma irradiation is suitable for such purposes. At time of simulated irradiation, animals should be placed under similar conditions as in actual experiments with internal administration of isotopes. In a series of experiments staged on rats using averaged dose rates of radiophosphorus, the effectiveness of internal and external irradiation was the same, and in some cases slightly higher for internal irradiation. On the whole, it appears that the spatial distribution of an internal emitter dose quantitatively does not play as significant a role as often assumed. Orig. art. has: 5 figures and 1 table.

SUB CODE: 06/ SUBM DATE: 23Apr66/ ORIG REF: 007/ OTH REF: 007

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, M.

Accounting

Calculation of indexes for the fulfillment of the output plan and production costs in the production balance sheet.. Bukhg. uchet 12, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

BERKOVSKIY, V.S.; AVRUNIN, P.M.

Improving roll grooving on the 550 mill. Metallurg 7 no.10: 7-11 O '62. (MIRA 15:9)

(Rolls (Iron mills))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNIN, P.M.; SIDOROV, K.V.

Strength of textolite bushings. Metallurg 9 no.10:34 O '64
(MIRA 18:1)

1. Zavod "Dneprospetsstal'".

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

PAVLOV, I.M.; AVLUKHIN, P.M.

Investigating the longitudinal and transverse effectiveness of deformation during rolling. Izv. vys. ucheb. zav.; chern. met. 8 no.9:92-97 '65. (MIRA 18:9)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

BERKOVSKIY V.S., inzh.; OSADCHIY, A.N., inzh. Prinimali uchastiye: STETSENKO, N.V.; LOMAREV, M.I.; AVRUNIN, P.M.; SHALIMOV, M.I.; IVANISHKIN, A.Ya.; OVECHKIN, V.I.; POVETKIN, G.I.; SHEVERDIN, V.I.

Grooving for the rolling of strip with acute angles. Stal' 23 no.7: 627-631 Jl '63. (MIRA 16:9)
(Rolling (Metalwork)) (Rolls (Iron mills))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

BERKOVSKIY, V.S.; OSADCHIY, A.N.; AVRUNIN, P.M.

Improving the roll pass design of jobbing mills for the rolling of high alloy steel. Metallurg 10 no.3:24-25 Mr '65.
(MIRA 18:5)

1. Moskovskiy institut stali i splavov i zavod "Dneprospetsstal'".

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

POLUKHIN, P.I.; BERKOVSKIY, V.S.; OSADCHIY, A.N.; STETSENKO, N.V.; AVRUNIN, R.M.; IVANKIN, Yu.I.

Oval and edged oval system of roll passes on tandem light section mills for rolling high alloy steel. Stal' 25 no.4:337-341 Ap '65. (MIRA 18:11)

1. Moskovskiy institut stali i splavov i Zavod "Dneprospetsstal'".

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

CA

29

The preparation of synthetic silk fibers for dyeing. V. I. Avrunina and A. S. Frolov. *Tekstil. Prom.* 7, No 1, 35-7 (1947).— The swelling of viscose fibers by immersion in water, in soap solns., in solns. of wetting agents, or in solns. of NaOH is an important factor affecting subsequent dyeing operations. Treatment at 60° for 40 min. is recommended for optimum results when 2-3 g./l. of wetting agent, 5 g./l. of oleic soap, or 1 g./l. of soda ash is used. Marshall Sittig

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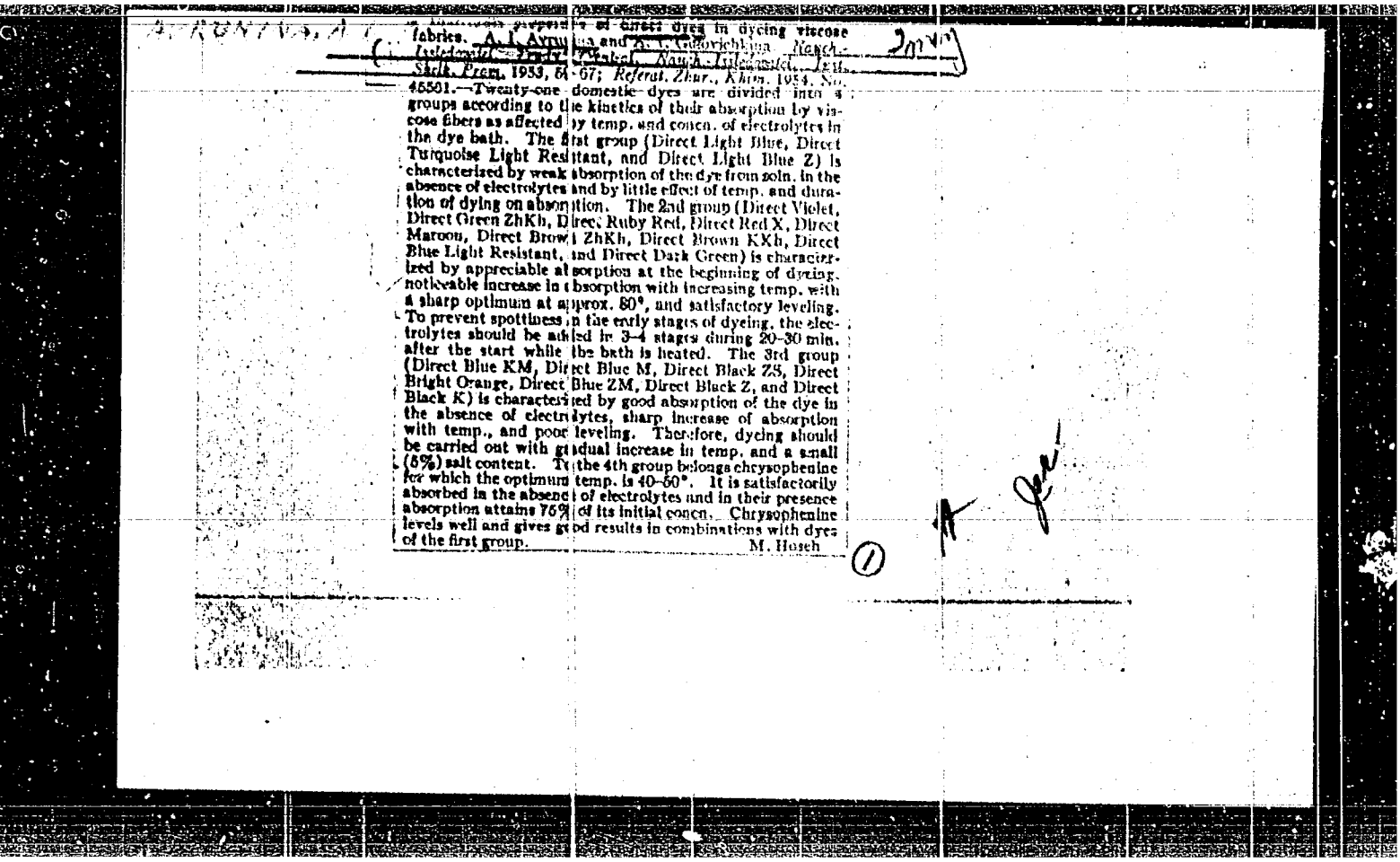

fabrics. A. I. Ayrapetyan, [illegible] Shelk. Prom. 1953, 64-67; *Referat. Zhur., Khim.* 1954, No. 46501.—Twenty-one domestic dyes are divided into 4 groups according to the kinetics of their absorption by viscose fibers as affected by temp. and concn. of electrolytes in the dye bath. The first group (Direct Light Blue, Direct Turquoise Light Resistant, and Direct Light Blue Z) is characterized by weak absorption of the dye from soln. in the absence of electrolytes and by little effect of temp. and duration of dying on absorption. The 2nd group (Direct Violet, Direct Green ZhKh, Direct Ruby Red, Direct Red X, Direct Maroon, Direct Brown ZhKh, Direct Brown KKh, Direct Blue Light Resistant, and Direct Dark Green) is characterized by appreciable absorption at the beginning of dying, noticeable increase in absorption with increasing temp. with a sharp optimum at approx. 80°, and satisfactory leveling. To prevent spottiness in the early stages of dying, the electrolytes should be added in 3–4 stages during 20–30 min. after the start while the bath is heated. The 3rd group (Direct Blue KM, Direct Blue M, Direct Black ZS, Direct Bright Orange, Direct Blue ZM, Direct Black Z, and Direct Black K) is characterized by good absorption of the dye in the absence of electrolytes, sharp increase of absorption with temp., and poor leveling. Therefore, dying should be carried out with gradual increase in temp. and a small (6%) salt content. To the 4th group belongs chrysophenine for which the optimum temp. is 40–50°. It is satisfactorily absorbed in the absence of electrolytes and in their presence absorption attains 75% of its initial concn. Chrysophenine levels well and gives good results in combinations with dyes of the first group.

M. Hosch

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AVRUNINA, Anna Isaakovna; ARSEN'YEV, Nikolay Nikolayevich; RUSAKOV, Nikolay Gennadiyevich; TUMAYAN, Stepan Akopovich; KUKIN, G.N. retsenzent; NATANSON, I.A., retsenzent; KOPELEVICH, Ye.I., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[General silk technology] Obshchaia tekhnologiia shelka. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956. 241 p. (MLRA 10:5)
(Silk manufacture)

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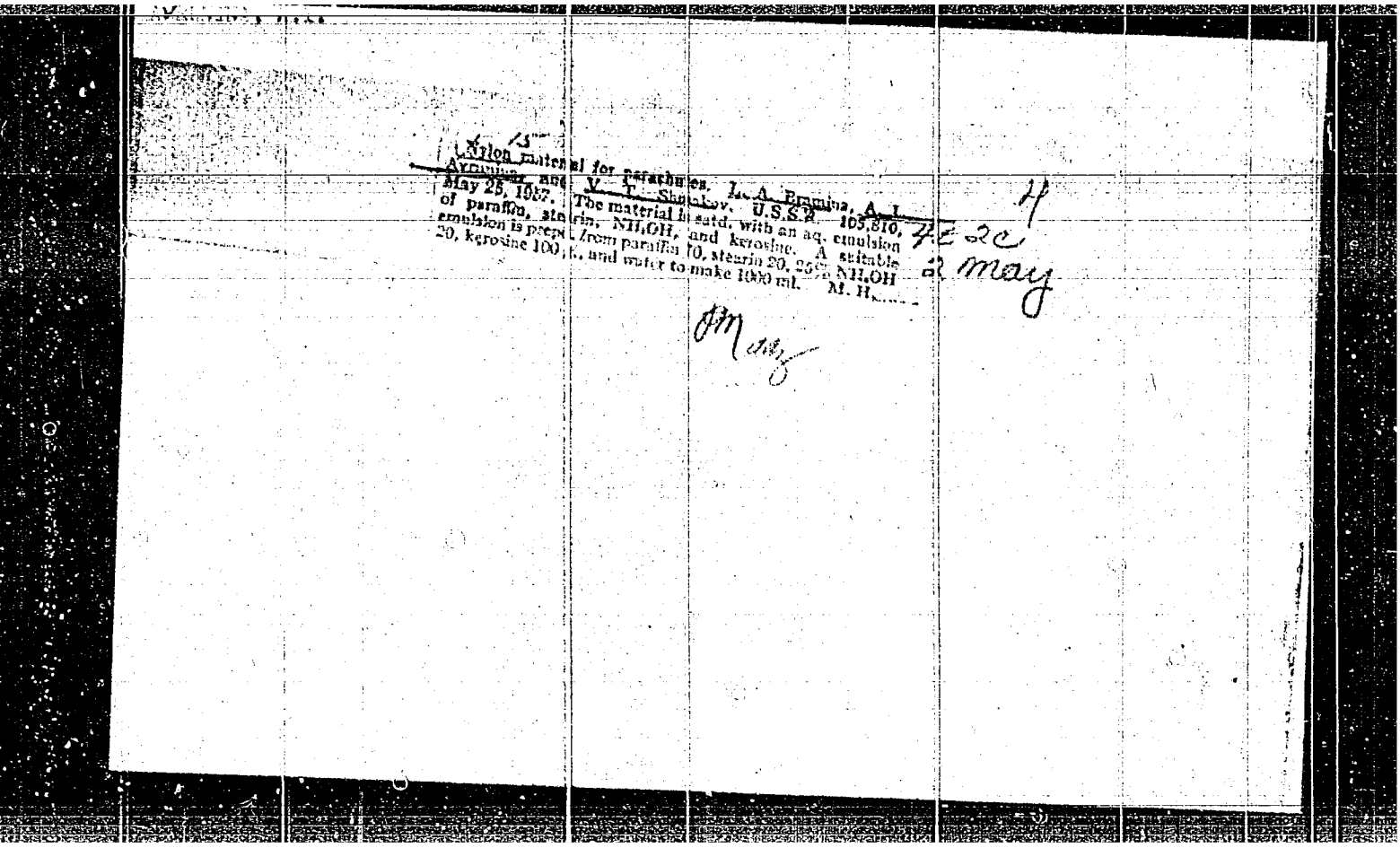

Nylon material for parachutes. L. A. Brunina, A. I. [illegible], V. T. Shutskov. U.S.S.R. 105,810, May 25, 1957. The material is satd. with an aq. emulsion of paraffin, stearin, NH4OH, and kerosine. A suitable emulsion is prepd. from paraffin 10, stearin 20, 25% NH4OH 20, kerosine 100, and water to make 1000 ml. M. H.

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LOSHKAREV, M.A.; AVRUNINA, A.N.; ROSTOVTSEVA, V.K.

Effect of surface active agents on the dissolution of zinc in acid. Trudy MKHTI no.6:12-20 '58. (MIRA 13:11)
(Surface active agents) (Zinc) (Acids)

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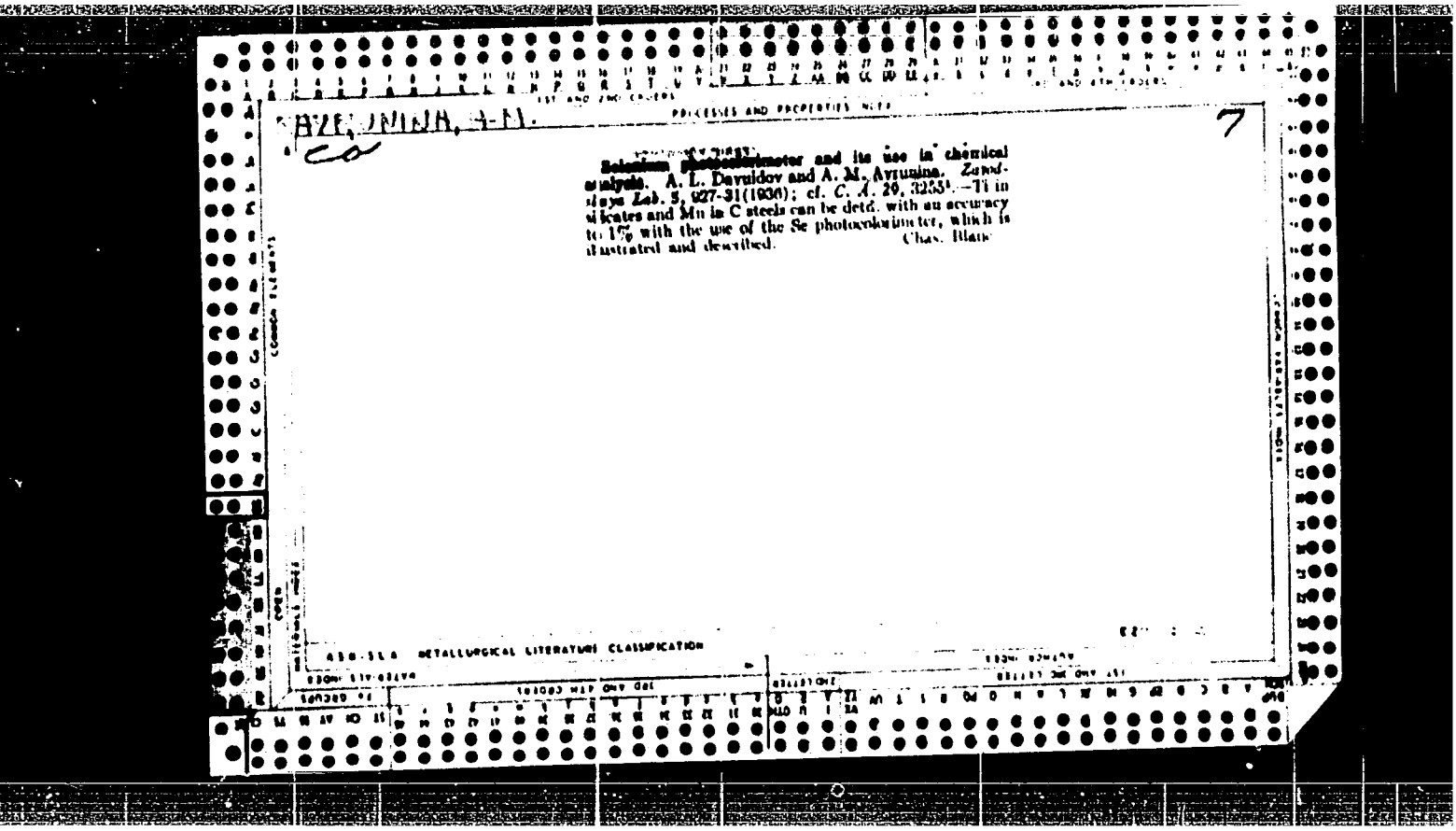

BYELORUSSIA, A-11.

Co

7

PROCESSES AND PROPERTIES NEC

Selenium photoelectrometer and its use in chemical analysis. A. L. Davuidov and A. M. Ayrumina. Zavodskaya Lab. 5, 927-31(1936); cf. *C. A.* 29, 3253⁵.—Ti in silicates and Mn in C steels can be detd. with an accuracy to 1% with the use of the Se photoelectrometer, which is illustrated and described. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

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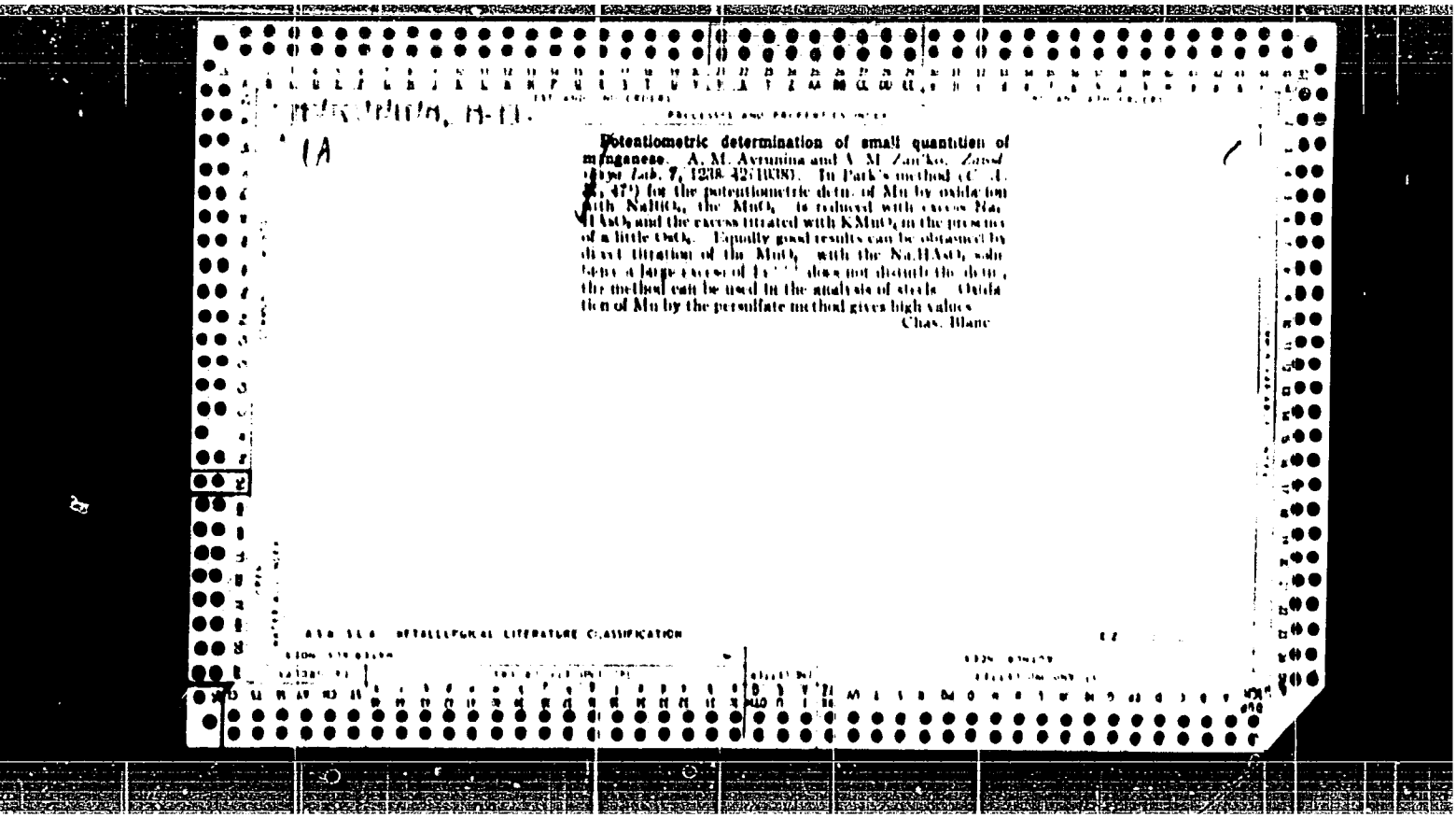

Potentiometric determination of small quantities of manganese. A. M. Avrunina and V. M. Zan'ko. *Zavod. Lab.* 7, 1238-42(1938). In Park's method (*C. A.* 8, 47°) for the potentiometric detn. of Mn by oxidation with $NaBiO_3$, the MnO_4^- is reduced with excess $Na_2H_2AsO_3$ and the excess titrated with $KMnO_4$ in the presence of a little ClO_4^-. Equally good results can be obtained by direct titration of the MnO_4^- with the $Na_2H_2AsO_3$ solution. A large excess of Fe^{++} does not disturb the detn., the method can be used in the analysis of steels. Oxidation of Mn by the persulfate method gives high values.
Chas. Blanc

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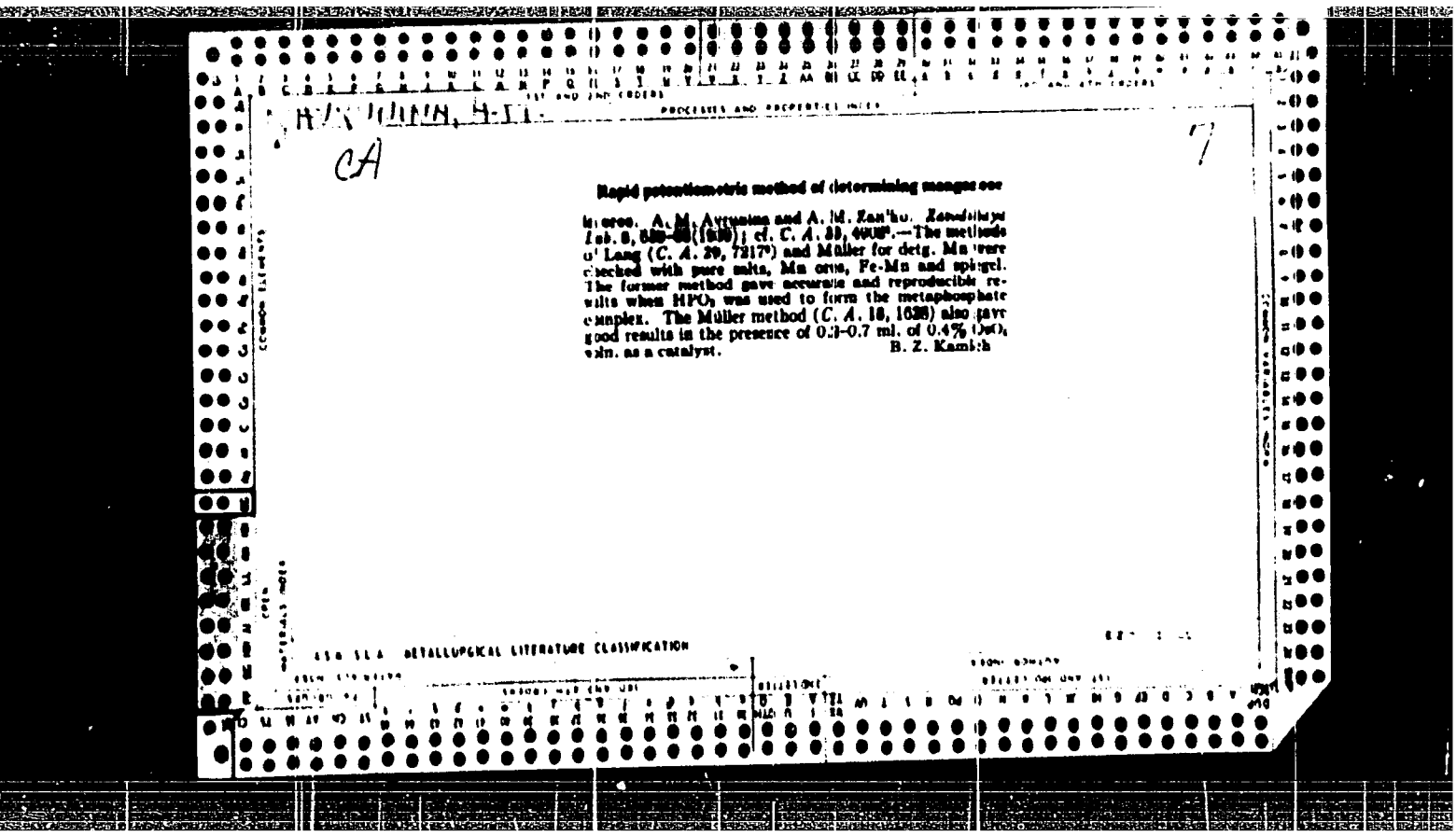

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Rapid potentiometric method of determining manganese

In steel. A. M. Ayrapetova and A. M. Zan'ko. *Zavodskaya Lab.* 8, 659–60 (1939); cf. *C. A.* 33, 4008⁸.—The methods of Lang (*C. A.* 29, 7217⁹) and Müller for detg. Mn were checked with pure salts, Mn ores, Fe-Mn and spiegel. The former method gave accurate and reproducible results when HPO_3 was used to form the metaphosphate complex. The Müller method (*C. A.* 18, 1628) also gave good results in the presence of 0.3–0.7 ml. of 0.4% OsO_4 soln. as a catalyst.

B. Z. Kamish

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNINA, B.M.

Preparation of wood cellulose with the aid of organic solvents. II. V. V. Vanovskii, S. S. Malevskaya, E. I. Evtropyev, and B. M. Avrunina. *J. Appl. Chem. U.S.S.R.* 17, 315-20(1944).—See *C.A.* 38, 7898a. H. I. H.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNINA, S. M.

(S)

Preparation of wood cellulose with the aid of organic solvents. II. V. V. Yasovskii, E. S. Malevskaya, K. I. Kiryop'eva, and S. M. Avrudina (V. M. Molotov Technol. Inst., Leningrad). Zhur. Prikl. Khim. 27, 134-40 (1954).—Neither $(CH_2OH)_2$ nor glycerol in aq. soln. are very effective delignifying solvents (at 110–50°) for wood chips. The same solvents are much more effective in anhyd. condition. However, mono-hydroxy compds. (BuOH, EtOH) are more effective when mixed with H_2O.

G. M. Kosolapoff

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T

Country : USSR
Category: Human and Animal Physiology. Action of Physical Factors. Ionizing Radiation.

Abs Jour: RZhBiol., N. 19, 1958, 89378

Author : Kochetkova, T.A.; Avrunina, O.A.
Inst : -
Title : Changes in the Lungs and other Organs Following Intratracheal Administration of Radioactive Sodium Chloride and Chromium Phosphate.

Orig Pub: Tr. Vses. konferentsii po med. radiol. eksperim. med. radiol. M., Medgiz, 1957, 194-197

Abstract: Rats were administered, intra-tracheally, insoluble $CrP^{32}O_4$, in doses of 30 mg in 1 ml of a 5% solution of glucose and $Na^{24}Cl$ in the form of a 1 ml 2.5% solution. The greatest single dose of $Na^{24}Cl$ was

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

USSR/Human and Animal Physiology. Action of Physical Agents.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37009.

Author : Donshlak, M.P., Avrunina, G.A., Grigoriev, Y.G., Darenskaya, N.G.

Inst :

Title : Materials to Investigation on the Specificity of Reaction of the Organism to Irradiation.

Orig Pub: Pub. Vestn. rentgenol i radiol., 1957, No 2, 3-10.

Abstract: Attention is attracted to the importance of estimation of the distribution of a dose of internal irradiation in time. In experiments on 400 mice and 115 rats the difference in the value of the absolutely minimal lethal dose of external irradiation and internal irradiation with P^{32} and the time of the animal's death become minimal, when external irradiation was equal to internal

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Abs Jour: Ref Zhur-Biol., No 8, 1958, 37009.

was noted, and vice-versa. In order to bring about a 100% destruction of the animal by irradiation of various segments of the body, equal in mass, various doses of radiation were needed (for the head, 2000r, chestcage, 10,000 r, the upper abdomen 5000 r.) Along with the common manifestations of radiation illness, identical for irradiations of various segments of the body, specific changes were noted, characteristic for irradiation of definite segments of the body.

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PHASE I BOOK EXPLOITATION SOV/5200

Alexander, Peter

Yadernoye izlucheniye i zhizn'. Moscow, Atomizdat, 1959. 254 p. 6,800 copies printed. Transl. of Atomic Radiation and Life.

Translator (Title page): G.A. Avrunina; Ed. (Title page): O.V. Popov, Candidate of Medical Sciences; Ed.: M.A. Saguro; Tech. Ed.: Ye.I. Mazel'.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a translation from English of a work by Peter Alexander entitled "Atomic Radiation and Life" published by Penguin Books. The introduction to the Russian edition was written by O.V. Popov and points out that Alexander's work does not reflect the contributions of Soviet scientists whose findings in this field often contradict those of Western scientists. The work and experimental findings of M.I. Nemenov, A.V. Lebedinskiy, M.N. Livanov, P.D. Gorizontov, Yu.G. Grigor'yev, A.B. Tsypin, Yu.K. Kudritskiy, G.A. Nadson, G.S. Filippov, and B.L. Astaurov on the effect of radiation on the nervous system, and that of N.P. Dubinin, M.A. Arsen'yev, and G.G. Tinyakov on the reproductive system

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are cited as examples. Mention is made of the development of highly productive strains of antibiotics by S.Yu. Gol'dat and S.I. Alikhanyan using radiation means; of mutations in silkworms achieved by V.A. Strunnikov; and of V.L. Troitskiy's use of gamma rays in sterilizing nutritive media for microorganisms and in preparing vaccines.

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PHASE I BOOK EXPLOITATION SOV/4046

Akademiya meditsinskikh nauk SSSR. Institut gigiyeny truda i profzabolevaniy.

Materialy po toksikologii radioaktivnykh veshchestv. vyp. 2: Radioaktivnyye kobal't, natriy, fosfor, zoloto (Material on the Toxicology of Radioactive Substances. No. 2: Radioactive Cobalt, Sodium, Phosphorus, and Gold). Moscow, Medgiz, 1960. 169 p. Errata slip inserted. 3,000 copies printed.

Eds. (Title page): A. A. Letavet, Member, Akademiya meditsinskikh nauk SSSR, Professor, and E. B. Kurlyandskaya, Doctor of Biology, Professor; Ed. (Inside book): D. I. Zakutinskiy; Tech. Ed.: M. I. Gaberland.

PURPOSE: This collection of articles is intended for persons in radio-biology and radiation hygiene, doctors in public health departments and epidemic control stations, and physicists and others concerned with the determination of permissible limits of radioactive isotope concentration.

COVERAGE: This collection of articles contains material from experimental studies in connection with research on the influence of radioactive cobalt on an organism and on the aftereffects of intratracheal administration of soluble salts of radioactive sodium and insoluble compounds of radioactive

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Material on the Toxicology (Con't) SOV/4046

phosphorus and gold. Data on the exchange of radioactive cobalt and calculations of the tissue dosage in an organism for single and repeated injections are given. Individual articles treat the effect of radioactive cobalt on the hematogenous system, albumin and carbohydrate exchange, changes in the cardiovascular system, pathomorphological displacement in organs, and stimulation of the process of elimination of radioactive isotopes from organisms. Permissible limits of radioactive cobalt concentration in water, based on exhaustive experiments, are presented. The differences between the effects of soluble and insoluble compounds containing radioactive isotopes (sodium, phosphorus and gold), and the formation of neoplasms in the lungs after intratracheal injections of insoluable compounds of phosphorus and gold are established. The amount of tissue dosage causing blastomeric growth is determined. References accompany all articles but the first.

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Material on the Toxicology (Con't)

Avrunina, G. A. Data on Co^{60} Exchange in Rats and Rabbits After a Single Injection of Co^{60}, and Calculation of the Radiation Dosage in the Body 14

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

Material on the Toxicology (Con't) SOV/4046

Vinogradova, N. I., and Ye. D. Grishchenko. Disturbance of Certain Phases of Carbohydrate-Phosphorus Exchange in Rabbits Subjected to Continuous Co^{60} Affection

Rubanovskaya, A. A. Change in the Penetrability of the Eye and Skin Vessels of Rabbits After the Continuous Injection of Co^{60} 86

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

Material on the Toxicology (Con't)

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Rubanovskaya, A. A. Effect of Cyclohexanediaminetetraacetic Acid (TsDTU) on the Elimination from the Organism of Radioactive Strontium and Cobalt

Kochetkova, T. A., and G. A. Avrunina. Delayed Aftereffects of Intratracheal Administration of Soluble and Insoluble Compounds of Certain Radioactive Isotopes ($Na^{24}Cl$, $CrP^{32}O_4$, and Colloidal Au^{198}) 145

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUNINA, G.A.; KARAMZINA, N.M.; FEDOROVA, V.I.; YANOVSKAYA, B.I.

Biologic action of high energy irradiation. Biul. eksp. biol. i med. 52 no.8:52-56 Ag '61. (MIRA 15:1)

1. Iz Instituta gigiyeny truda i profzabolevaniy AMN SSSR i gruppy pri deystvitel'nom chlene AMN SSSR B.A.Lavrove, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.A. Letavetom.
(RADIATION--PHYSIOLOGICAL EFFECT)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

S/865/62/002/000/037/042
D405/D301

AUTHORS: Rapoport, I.A., Yarmonenko, S.P. and Avrunina, G.A.

TITLE: Effect of high-energy protons on frequency of mutations

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962, 370-386

TEXT: The study of the effect of high-energy protons on the frequency of mutations is important owing to the fact that protons of energy up to 1000 Mev constitute a major component of cosmic radiation at a radius of 100-1000 km from the Earth's surface, this component being concentrated in particular in the regions of magnetic anomaly. The proton beam was obtained from the synchrocyclotron of the Joint Institute for Nuclear Research. The characteristic of the beam and the method of calculation are described in the references. Drosophila males of the line yellow^{39} were subjected to proton irradiation. Conclusions: Protons of energy 660 Mev in dose-rates of

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Effect of high-energy ... S/865/62/002/000/037/042
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510-12140 r bring about an increase in the frequency of recessive lethal mutations in Drosphila sex chromosomes that is proportional to the dose, constituting ~ 2% per each 1000 r. The curve mutation frequency vs. dose is very similar to the corresponding curve for gamma radiation. The measurement of the frequency of recessive lethal mutations for doses of 3980, 9165, 10745, 11485 and 12140 r during 6 experiments showed a sharp drop in the mutation yield of irradiated spermatogonia as compared to that of irradiated spermatozoids; the main reason for this is apparently the dispropertionate rate of reduplication of gonial cells with chromosome abberations and semi-dominant and dominant lethals with respect to those left normal, and not the low mutability of spermatogonia. On comparing the fertility in the first generation of crossed males, it is found that the frequency of dominant lethal mutations in the irradiated spermatozoids has a similar pattern to that of dominant lethal mutations due to X- and gamma radiation. The curves for the frequency of sterility and semi-sterility mutations are similar to those for other mutations. The fact that the mutability curves retain their linearity when the oxygen concentration increases suggests that, in

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the case of irradiation by high-energy protons, the oxygen is a more effective component of the mutation background than organic peroxides and radicals. There are 3 figures and 5 tables.

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YARMONENKO, S.P.; AVRUNINA, G.A.; SHASHKOV, V.S.; GOVORUN, R.D.

Action of radiation protectors in whole-body irradiation by high-energy protons. Probl.kosm.biol. 2:388-392 '62. (MIRA 16:4)

(RADIATION--SAFETY MEASURES)
(PROTONS--PHYSIOLOGICAL EFFECT)

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D268/D302

22.2400
AUTHORS: Yarmonenko, S.P., Avrunina, G.A., Shashkov, V.S., and Govorun, R.D.

TITLE: The oxygen effect in whole-body irradiation with high energy protons

PERIODICAL: Radiobiologiya, v. 2, no. 1, 1962, 125 - 127

TEXT: Biological protection and its dependence on the oxygen effect were studied in male white mice (weight 21 - 23 g) chemically protected by peritoneal injection of the following 10 - 15 min. before irradiation: MEA (beta-mercaptoethylamine chlorohydrate), cystamine dichlorohydrate, and AET (S, beta-aminoethylisothiouronium bromide hydrobromide) at 3 mg/mouse, 5-methoxytryptamine chlorohydrate at 1.5 mg/mouse, and Serotonin (5-hydroxytryptamine creatinine sulfate) at 1 mg/mouse. Serotonin and 5-methoxytryptamine were synthesized by N.N. Suvorov, and the remainder by F.Yu. Rachinskiy. Irradiation was by proton impulse beam (660 Mev) at a dose rate of 300 - 400 rad/min. from the synchrocyclotron at the Ob'yedinennyy

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The oxygen effect in whole-body ...

institut yadernykh issledovaniy (Combined Institute for Nuclear Research). All compounds tested increased survival, the average duration of life in protected animals being 8.1 - 16 days with doses in the range 1,070 - 1,472 rad as against 5.9 - 8.7 days for unprotected with 1,070 - 1,360 rad. Reduction in the biological effect can be attributed to reduction in ionizing density in relation to the acceleration of high energy protons. There was an increase in H_2O_2 yield in water irradiated with accelerated protons particularly at 1.8 - 7 Mev, which can be interpreted as an indirect indication of the oxygen effect appearing in proportion to particle acceleration. Since the oxygen effect increases under the action of high energy protons, it was thought that radiation sickness could be alleviated by preparations in which the oxygen effect plays a major role in the mechanism of radioprotection, and this was confirmed experimentally by local bone marrow asphyxia in mice irradiated with protons (660 mev) at 1,300 rad. There are 2 figures and 10 references: 6 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: H.M. Patt,

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

KOCHETKOVA, T.A.; AVRUNINA, G.A.; SAGAYDAK, N.D. (Moskva)

Carcinogenic properties of some radioactive compounds in the late period of their action. Arkh.pat. 24 no.5:3-7 '62. (MIRA 15:5)

1. Iz radiotoksikologicheskoy laboratorii (zav. - prof. E.B. Kurlyandskaya), patomorfologicheskoy laboratorii (zav. - prof. P.P. Dvizhkov) Instituta gigiyeny truda i profzabolevaniy (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Letavet) AMN SSSR.
(CARCINOGENS) (RADIOISOTOPES--PHYSIOLOGICAL EFFECT)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

YARMONENKO, S.P.; AVRUNINA, G.A.; GOVORUN, R.D.

Oxygen effect following total irradiation with high energy protons. Radiobiologiia 2 no.1:125-127 Ja '62 (MIRA 18:1)

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S/020/62/142/003/026/027
B144/B101

27.1220

AUTHORS: Kurlyandskaya, E. B., Avrunina, G. A., Ponomareva, V. L., Fedorova, V. I., Yanovskaya, B. I., and Yarmonenko, S. P.

TITLE: Relative biological efficiency (RBE) of 660 Mev protons

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 702-705

TEXT: The biological efficiency of 660 Mev protons produced in the 6 m synchrocyclotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) in Dubna was investigated and compared with the effect of x-rays. White mice and rats were whole-body irradiated with doses of 260 - 44,800 rad and 300 - 1600 rad, respectively. The interdependence of perishing time and radiation dose and the influence on the hematopoietic system were similar to those of x-rays, but the relevant RBE was much lower. Irradiations with proton doses of 565 rad and x-ray doses of 400 rad which are about equal as to their lethal effect produced, however, significantly different aftereffects. The gonads proved to be the most sensitive organs (RBE ~ 1). The cancerogenic effect of 660 Mev protons was equal or somewhat stronger than that of x-rays.

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Relative biological efficiency... S/020/62/142/003/026/027
B144/B101

The possibility of increasing the radioresistance in animals by radiation blockers was studied. β-mercapto ethyl amine hydrochloride, hydrobromide of δ,β-amino ethyl isothiouronium bromide, and serotonin creatinine sulfate yielded positive results. This is probably due to the reduced ionization density of 660 Mev protons. Their low RBE may result from the pulse character of the proton beam, the high dose intensity, and perhaps also from the reduction of the linear-energy expenditure with increasing particle energy. This problem has still to be solved. The RBE of different radiations should be detailed as to individual body systems and different periods after irradiation. V. P. Dzhelepov and M. M Komochkov are thanked for assistance and advice. There are 4 figures, 1 table, and 9 references: 5 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: J. B. Storer, P. S. Harris et al., Radiation, Res., 6, No. 2, 188 (1957); R. Ghys, Intern. J. Rad. Biol., 2, No. 4, 399 (1960); H. M. Patt, J. W. Clarck, H. H. Vogel, Proc. Soc. Exp. Biol. and Med., 84, 1, 189 (1953); H. M. Patt, R. L. Straube, Radiation Res., 1, 2, 226 (1954)

Card 2/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

ACCESSION NR: AT4042722 S/0000/63/000/000/0510/0514

AUTHOR: Yarmonenko, S. P.; Kurlyandskaya, E. B.; Avrunina, G. A.; Gaydova, Ye.S.; Govorun, R. D.; Orlyanskaya, R. L.; Paly*ga, G. F.; Ponomareva, V. L.; Fedorova, V. I.; Shmakova, N. L.

TITLE: Reactions to radiation an chemical protection of animals subjected to the effects of high-energy protons

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 510-514

TOPIC TAGS: corpuscular radiation, high energy proton, synchrocyclotron, gamma ray, radiation effect, radioprotective agent, RBE

ABSTRACT: Experiments were performed to determine the immediate and the delayed effects of high-energy protons and their RBE on animal organisms. High-energy protons of 660 Mev were generated on a syncrocyclotron. Comparative tests using gamma rays from a Co^{60} source were used in establishing the RBE. Nonpure strain mice and rats were used, in addition to mice of the BALB and C-57Bl strains.

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ACCESSION NR: AT4042722

All materials were subjected to statistical analysis. In comparative experiments performed on rats subjected to a dose of 500 rad, the degree of injury to hemopoietic organs by protons was considerably less than injury caused by gamma radiation. The depression of hemopoiesis in the bone marrow and the spleens of animals irradiated by protons was less profound and less prolonged, and regenerative processes began earlier than in injuries produced by produced by gamma rays. This difference of effect was particularly clear in the dynamics of the peripheral blood. After exposure to gamma irradiation, a profound and prolonged anemia developed, accompanied by a loss of 44% of the erythrocytes and 51% of the hemoglobin. An equivalent dose of protons caused only insignificant lowering of these indices. Similar effects were observed in the white blood corpuscles, particularly in respect to neutrophiles. The results obtained confirm that the condition of peripheral blood does not reflect the true depth of radiation damage to hemopoiesis. In experiments with white mice, a study was made of early destructive changes in the brain marrow, the dynamics of mitotic activity, and the kinetics of cells with chromosomal injuries. Exposure to protons induced typical radiation degeneration of cells of the bone marrow, a slowing down of mitotic activity, and injuries to the chromosomes. A strong linear relationship of injury-to-dose was

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observed in all three indices within the 250--1000 rad range. Exposure to equivalent doses of gamma rays produced more pronounced changes, indicating that the RBE of protons is equivalent to 0.5--0.7. Preliminary administration of radioprotective agents -- AET (S,β-aminoethylisothioronium), MEA (mercaptoethylamine), and 5-MOT(5-methoxytryptamine) -- diminished the number of degenerating and aberrant cells in the bone marrow in proportion to the effect of the indicated drugs on survival. The most effective appeared to be a combination of MEA and 5-MOT, whose use assured the survival of 50% of the mice when irradiated by doses of 1900 rad. If irradiation is fractionated, the protective effect of the drugs is reduced sharply, or it disappears altogether. In experiments on male mice of the BALB strain subjected to doses of 500 and 700 rad, reversible changes were observed in the weight of testicles. The change of weight and its subsequent recovery was due to the death and the subsequent regeneration of germ cells. Protons have a typical sterilizing effect on the genitalia, but their RBE, in comparison with gamma rays, lies between 0.6 and 0.7. The use of antiradiation drugs did not prevent the sterilizing action of protons, but it caused a somewhat smaller loss of weight of the testicles and produced a shorter period of sterility. White male mice which had been protected by AET, MEA, 5-MOT, and cystamine from the effects of proton doses of 1300--1600 rad recovered their generative functions

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almost completely four to seven months after irradiation. The development of the first generation of 290 mice obtained by crossing the protected and irradiated males with intact females took place without visible somatic injuries. The relative effectiveness of protons and gamma rays in causing somatic mutations was studied on livers of white rats who were subjected to doses of 150 rad. Regeneration of the liver was induced by removing the large left and the front right lobes of the liver. The operation was performed 24 hours after irradiation. The animals were killed 30 hours after the operation, i. e., during the first wave of the increase of mitotic activity. Control animals had 6.9% of aberrant cells, while after irradiation by protons and gamma rays, the number of aberrant cells was 20% and 29%, respectively. This indicates that the RBE of protons in respect to somatic mutations is around 0.7. New data were obtained on the blastomogenic effect of protons. Out of 85 irradiated rats, tumors were found in 39. Twenty-five of them had multiple tumors in various locations. In experiments on non-pure strain white mice, it was possible to show that antiradiation drugs, while increasing the ratio resistance of the animals, do not prevent subsequent development of new growth. Out of 65 irradiated mice who died at various periods after exposure to protons in doses from 1300 to 1500 rad (after having previously received antiradiation protection), fourteen had leucosis and four had sarcoma.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

KRAVCHUK, M.V., kand. tekhn. nauk; ALEKSEYEV, A.M.; AVRUSHKIN, Yu.I.

Selection of the power of automobile generators. Avt. prom. 30 no.12:32-35 D '64. (MIRA 18:2)

1. Moskovskiy avtomekhanicheskiy institut.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, A.D.; DAVYDOVA, L.I.; LAVROVA, D.S.; RENNE, V.T.

Study of some factors affecting the development of ionizational processes in the dielectric of oil-saturated paper capacitors. Izv. NIIPT no.7:231-241 '61. (MIRA 14:9)
(Electric capacitors)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

ACCESSION NR: AP4015075 S/0138/64/000/001/0021/0024

AUTHORS: Avrushchenko, B. Kh.; Lepetov, V. A.

TITLE: Effect of preliminary aging on change in high elasticity properties of rubber at low temperatures

SOURCE: Kauchuk i rezina, no. 1, 1964, 21-24

TOPIC TAGS: high elasticity property, relative elongation, low temperature, static modulus

ABSTRACT: Type SKN-18 rubber with TM-2 hardness equal to 60 and 343% relative elongation has been studied to determine the preliminary aging effects on rubber strength at low temperatures. The specimen was subjected to 100% axial stress at temperatures from 20 to -50C, after various aging durations in a thermostat at 90C. The magnitude of K', the coefficient of increase in rigidity during and after aging, does not depend on the determined temperature during the aging process itself. The coefficient of increase in strength at low temperatures after different storage time durations is expressed by the product KK' (K- rigidity increase before aging). The static modulus after aging at low temperatures is given by EKK' (E-

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ACCESSION NR: AP4015075

high elasticity static modulus at 20C, in kg sec/cm^2). Orig. art. has: 10 formulas, 4 figures, and 2 tables.

ASSOCIATION: Leningradskiy filial nauchno-issledovatel'skogo instituta resinovoy promy*shlennosti (Leningrad Institute of Scientific Research in the Rubber Industry)

SUBMITTED: 00 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: MA NO REF SOV: 003 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUSHCHENKO, N.M.

Results of treatment of inflammatory diseases of the eye with cortisone. Vest. oft. no.6:70-71 '61. (MIRA 14:12)

1. Kafedra glaznykh bolezney (zav. - prof. N.Ye. Braunshteyn) Khar'kovskogo meditsinskogo instituta.
(CORTISONE) (EYE—DISEASES AND DEFECTS)

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KOSHTOYANTS, KH. S., SERBENYUK, TS. V., AVRUSHCHENKO, SH. I.

Pancreas

New facts on reflex regulation of inner secretion of the pancreas with the participation of chemical agents. Dokl. AN SSSR 86 No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

GRUDENOV, Ya.I.; AVRUTIK, T.N. (Gorlovka).

Problems on subjects from physics for setting up quadratic equations.
Mat. v shkole no.5:90-92 S-O '58. (MIRA 11:10)
(Equations, Quadratic)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

S/196/62/000/004/008/023
E194/E155

AUTHORS: Avrutin, A.D., Davydova, L.I., Lavrova, D.S., and Renne, V.T.

TITLE: An investigation of certain factors that influence the development of ionising processes in the dielectric of paper-oil capacitors

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.4, 1962, 7, abstract 4 B27. (Izv. N.-i. in-ta postoyan. toka, no.7, 1961, 231-241)

TEXT: The intensity of ionisation was assessed by measuring the rate of impulses (discharges). A schematic diagram of the equipment is given. To investigate the relationship between the intensity of ionisation and the field strength the latter was raised in steps of 2.5 kV/mm with a delay of 60 sec at each step. The experimental capacitors were of the following characteristics. Paper - type KOH -II (KON-II), thickness 10 microns and width 60 mm; number of layers 4, 5, 6 and 8; capacitance about 0.1 microfarads; impregnated with capacitor oil. The mean electrical

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BONOVALOV, Ye.G.; AVRUTIN, A.M.; SIDORENKO, Yu.A.; LOBACHEVSKIY, I.S.

Machining holes by rotary mandrels. Stan. i instr. 30 no.1:29-30 Ja '59. (MIRA 12:1)
(Drilling and boring machinery)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, A.M., inzh.; PESTOV, B.M., inzh.; PUSTYL'NIK, M.Yu., inzh.

Mechanized assembly lines for the manufacture of welded drawing-machine frames. Svar.proizv. no.6:18-22 Je '60. (MIRA 13:7)

1. Minskiy stanko-stroitel'nyy zavod im. Kirova (for Avrutin).
2. Orgstankoprom (for Pustyl'nik, Pestov).
(Assembly-line methods) (Machine-tool industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, A.M.; GURIN, N., red.; DOMOVSKAYA, G., tekhn. red.

[Put potentials in the service of the seven-year plan] Rezervy - na sluzhbu semiletke. Minsk, Gos. izd-vo BSSR. Red. proizvodstvennoi lit-ry, 1961. 59 p. (MIRA 15:4)

1. Glavnyy tekhnolog minskogo stankostroitel'nogo zavoda imeni Kirova (for Avrutin).

(Machine-tool industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5324

Author: Goryaynov, K. E., Yefimov, A. D., Avrutin, N. A., Yakub, I. A.

Institution: None

Title: Gas Concrete Based on Entrainment Ash of Leningrad Heat and Power Stations

Original Publication: Novaya tekhn. i peredov. opyt v str-ve, 1956, No 6, 11-14

Abstract: It was found that on the basis of entrainment-ash of Leningrad electric power stations it is possible to produce gas concrete with a volumetric weight of 820-950 kg/m^3 and a compression strength of 80-100 kg/cm^2. Expenditure of Portland cement is of 160-230 kg/m^3, that of aluminum powder 200-300 g/m^3. There is described the technology of production of large gas concrete wall blocks, the manufacture of which is being set up at the Leningrad plant of Trust No 20.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, M.A., inzh.; SPIVAKOV, M.S., inzh.

Equipment for manufacturing and stretching cable reinforcements for roof shells. Biul.tekh.inform. 3 no.2:9-12 F '57. (MIRA 10:10)
(Prestressed concrete)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, M. A.

Stamp for compressing concrete mix. Stroitel' no.7:20 Jl '57.
(MLRA 10:9)
(Concrete slabs)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVERTIN, M.L.

GOBYAYNOV, K.M., doktor tekhn. nauk; YEFIMOV, A.D.; VOLCHEK, I.Z., kand. tekhn. nauk; AVERTIN, M.L., inzh.; LIZOGUB, A.A., inzh.; ZASHDATELEV, I.B., inzh.

Large wall blocks made of autoclave hardened lightweight concrete. Biul. tekh. inform. 4 no.2:1-5 F '58. (MIRA 11:3)

1. Chlen-korrespondent Akademii stroitel'stva arkhitektury (for Yefimov).

(Concrete blocks) (Lightweight concrete)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

GLUKHOVSKOY, K.A., inzh.; AVRUTIN, M.L., inzh.

In the drive for progressive technology and high quality of building.
Biul.tekh.inform. 4 no.10:9-12 O '58. (MIRA 11:11)
(Leningrad--Apartment houses)
(Leningrad--Precast concrete construction)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, M.L.

Apparatus used for supplementary vibration molding of concrete and reinforced concrete products. Rats. i izobr. predl. v. stroi. no.5: 5-6 '58. (MIRA 11:6)

(Molding machines) (Precast concrete)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

GORYAYNOV, K.E., doktor tekhn.nauk; YEFIMOV, A.D.; VOLCHEK, I.Z.; AVRUTIN, M.L.; ZASEDATELEV, I.B.; NECHAYEV, G.A., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Large aerated-cement wall blocks; practices of the Main Administration for Housing and Public Construction in the city of Leningrad] Krupnye gazobetonnye stenovye bloki; iz opyta Glavleningradstroia. Pod red. K.E.Goriainova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 102 p. (MIRA 13:1)
(Leningrad--Building blocks) (Lightweight concrete)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

A'TRUTIN, M.L., inzh.

Organization of preparatory operations on building sites.
Biul. tekh. inform. po stroi. 5 no.4:6-7 Ap '59.
(MIRA 12:8)

(Building)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, R.D., inzh.; RESHETIKHIN, N.V., kand. tekhn. nauk, retsenzent; MANSYREV, I.G., kand. tekhn. nauk, red.

[Handbook on hydraulic drives of machine tools] Spravochnik po gidroprivodam metallorezhushchikh stankov. Moskva, Mashinostroenie, 1965. 266 p. (MIRA 18:11)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVERUTIN, S.G., inzhener.

Electromechanical regulator of the level and recirculation of condensate in a turbine condenser. Elek.sta.27 no.6:53-55 Je '56. (MIRA 9:9)
(Condensers (Steam)) (Automatic control)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, S.V.

Milling machine work; approved textbook for trade and railroad schools Moskva, Trudrezervizdat, 1948. 320 p. 50-37857

TJ1225.A9

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, S. V.

Osnovy frezernogo dela. Moskva, Trudrezervizdat, 1951. 195 p. illus.

Bibliography: P.(193)

Fundamentals of milling.

DLC: TJ1225.A93

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, S. V.

Ratsional'naia rabota frezerovshchika. Moskva, Mashgiz, 1951. 212 p.

Efficient work of the milling machine operator.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102620011-8

AVRUTIN, S.V.

[Efficiency of a milling machine operator] Ratsional'naia rabota frezerovshchika. Izd.5., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1953. 247 p.

(MLRA 6:8)
(Milling machines)

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